CBC Co.,Ltd.

Tokyo, Japan

(Version Control #1)

COLOR TFT LCD MONITOR

USER MANUAL

ZM-L217E-II

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★ Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (Including Amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

12. Unplug this apparatus during lightning storms or when unused for a long period of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
15. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

★ FCC Regulation Class B computing system

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guaranty that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by on or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

CAUTION:

- Any changes or modifications not expressly approved by the grantee off this device could void the user's authority to operate the equipment.

(FOR FCC MODEL ONLY)

Chapter 1

Product Overview

1.1 Introduction

Thank you for choosing our new generation LCD monitor. This lightweight, slim design LCD monitor includes many outstanding features and combines the benefit of a high resolution display. Your LCD monitor is safe to use and completely free from any X-ray radiation. We hope you enjoy using our product, and would like to provide the following additional information to assist you in obtaining the best results, using the product safely and in complete comfort.

Please follow ALL instructions and cautions carefully before using this product. And keep this user manual carefully for future reference.

1.2 Feature

This product uses 17" color active matrix TFT (thin-film transistor) monitor, providing high quality displayed images. The maximum achievable resolution is 1024 x 768, which enables the display of complex and high quality images. In addition, the monitor also provides access to the new OSD (On Screen Display) controls and has built-in multi-media speakers.

High contrast color TFT LCD monitor supports VGA resolution up to resolution 1280 x 1024 (17")
Imbedded video signal BNC terminal, S-Video terminal, component signal RCA terminal and Audio signal RCA Jack
A complete OSD function optimizes the screen display
Multi Video System (NTSC/PAL)
500 TVL horizontal video resolutions
Detachable stand base

1.3 Product Specification

Panel
- 17.0" Active Matrix TFT LCD.
- 16.2 million Colors
- 1280 x 1024 (SXGA)

I/O connectivity
- VGA in 15pin mini D-SUB x1, BNC in /out X2 is Optional.
- BNC in/out X 1
- S-video in X 1
- RCA connector (Mono) X 1
- 3.5 connector (Mono) X 2

Video Input
- VGA
- S-Video & BNC

OSD Language
- English
- Traditional Chinese
- Simplified Chinese
- French
- German
- Spanish
- Italian
- Japanese
- Russian
- Portuguese

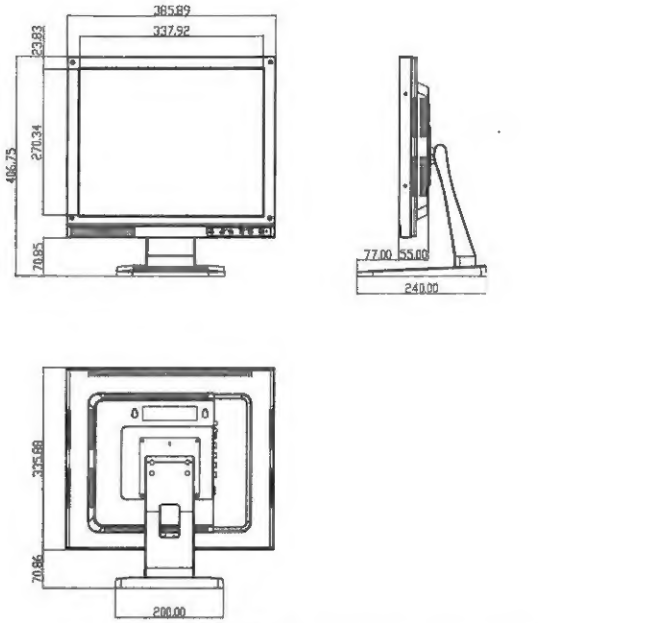
Power Management
- VESA DPMS Standard

Power Input
- DC 12V

Power Consumption
- 40W (Max.)

1.3.1 Mechanical Drawing

17 inch

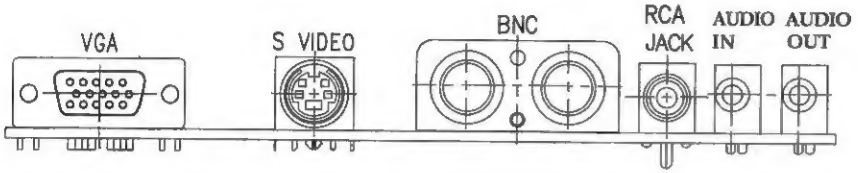


Note:
1. Weight: N.W. 4.64KG / G.W. 6.64KG
2. Dimension: (W)385.89 x (H)406.75 x (D)240 mm (with BASE)

1.3.2 I/O Drawing

☆ *Standard Type*

S-Video in x1 + BNC in/out x1



1.4 Product Contents

17" TFT LCD Monitor
Power Adapter
Power code
Signal Cable. (VGA Cable)
User Manual

1.5 Product Care

1. To remove dust or dirt from the screen, use a soft clean cotton cloth and wipe gently.
2. Do not apply pressure to the screen surface while wiping
3. Do not use any water or chemical detergent to clean the surface. Chemicals detergent may damage the surface of the LCD.

1.6 Caution

☆ **PRODUCT**

1. Do not cover or block the ventilation holes in the back of the monitor case.
2. Do not insert any metal objects into the ventilation holes of the monitor case and be careful not to spill liquids over this product as this could result in severe injury and damage.
3. Unplug the monitor's power cable if not to be used for a long period of time.
4. Do not attempt to dismantle this product. Any attempt to dismantle or remove the covers from this product will invalidate the warranty and may also result in serious injury and damage.
5. Do not touch the screen directly with fingers. The oils from your skin may leave marks on the surface of the screen, which are difficult to be removed and may damage the screen permanently.
6. Do not apply pressure to the LCD screen. The LCD is very delicate and fragile component.

☆ **MAINS PLUG (2Pin / 3Pin)**

1. Do not remove the grounding or earth connection from the power Supply/mains plug.
2. Always remember to unplug the LCD Monitor from the power supply under the following circumstance:

– If the monitor will not be used for a long period of time.
– If the power supply cable or plug / connector is damaged.

(Please refer to the "User Manual" when connecting and disconnecting the LCD Monitor from any power supply or other systems and before making any adjustments to the Monitor. In the event of any unexpected situation occurring whilst operating the Monitor please switch off the power supply and remove the power cable. If the problem is not explained in the User Manual, please contact your local dealer or our customer service department.)If the monitor housing is damaged or broken.

☆ **POWER CORD AND SIGNAL CABLE**

1. Do not put anything on the power cord or signal cable.
2. Do not allow any cables from the monitor to lie on the floor in an area where pedestrians are likely to trip causing injury.
3. This product is supplied with a 3 line-grounding plug. The grounding plug provides an additional safety feature for anyone using this equipment and should not be removed. Please contact a qualified electrician for assistance if the grounding plug and electrical connections appear to differ from the local supply provided. Do NOT throw this safety-grounding plug.
4. Do not overload the power cord or adapter.
5. Do not put the power cord or signal cable in humid places.

☆ **ALLOCATION ENVIRONMENT**

1. DO NOT place this product on any unstable trolleys, shelves or tables as it may fall and cause severe injury and damage.
2. Always ensure that the monitor is located in a well-ventilated area to prevent the unit from overheating.

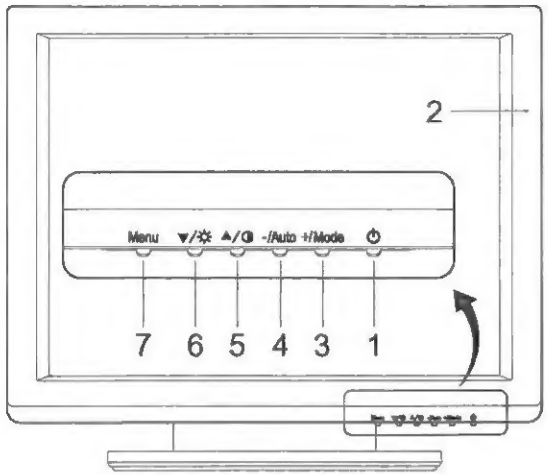
AVOID operating or placing the monitor in the following environment:
-Extremes of temperatures, both hot and cold.
-High Humidity.
-Direct sunlight.
-Excessively Dusty Surroundings.
-Avoid close proximity to other equipment that generates a strong magnetic field.

Chapter 2

Operation Instruction

2.1 Front Control Panel

17" Monitor



1. **Power Switch:** Press to switch monitor on/off.
2. **LED Indicator:** Power indicator.
3. **+ / Mode :**
   [1] Press to select next input signal. (Read ※ **Remark**)
   [2] Press to increase the value of OSD option selected.
4. **— / Auto :**
   [1] VGA signal auto adjustment.
   [2] Press to decrease the value of OSD option selected.
5. **▲/◑:**
   [1] Select OSD options upwards.
   [2] Contrast Adjust
6. **▼/☼:**
   [1] Select OSD options down wards.
   [2] Brightness Adjust
7. Menu: Recall or close OSD display, enter or return selection.

※ **Remark** :
Input signal order: BNC/VGA/S-Video.

2.2 OSD Menu

VGA OSD Menu

REF.#	Menu	Value
1	Brightness	0~100
2	Contrast	0~100
3	H-Position(VGA Only)	0~100
4	V-Position(VGA Only)	0~100
5	Clock(VGA Only)	0~100
6	Phase(VGA Only)	0~100
7	Color Temp.	User/sRGB/7500k/9300K
8	User Color R	0~100
9	User Color G	0~100
10	User Color B	0~100
11	OSD H-Pos.	0~100
12	OSD V-Pos.	0~100
13	Volume	0~100
14	Language	English, Traditional and Simplified Chinese, French, German, Spanish, Italian, Russian, Japanese & Portuguese.
15	Power Saving	ON/OFF
16	Recall	N/A

※When supports to Energy-saving standard, OSD menu won't have power saving option.

Composite and S-Video OSD Menu

REF.#	Menu	Value
1	Brightness	0~100
2	Contrast	0~100
3	Tint(COMPOSITE AND S-VIDEO NTSC Only)	0~100
4	Color	0~100
5	Color Temp	Warm/Cool/Standard
6	Sharpness	0~100
7	Scan	Over/Full
8	OSD H-Pos.	0~100
9	OSD V-Pos.	0~100
10	Volume	0~100
11	Language	English, Traditional and Simplified Chinese, French, German, Spanish, Italian, Russian, Japanese & Portuguese.
12	Power Saving	ON/OFF
13	Video NR	ON/OFF
14	Recall	N/A

※When supports to Energy-saving standard, OSD menu won't have power saving option.

2.3 OSD Function Table

VGA OSD Function Table

REF. #	Menu	Definition
1	**Brightness**	Adjust back ground black level of the screen image
2	**Contrast**	Adjust fore ground white level of the screen image.
3	**H-Position(VGA Only)**	Adjust the left or right position of the screen image
4	**V-Position(VGA Only)**	Adjust the up or down position of the screen image
5	**Clock(VGA Only)**	Adjust the horizontal sync width of the screen image
6	**Phase(VGA Only)**	Adjust the clarity of the screen image
7	**Color Temp.**	Press (+) or (-) to choose four types of color temperature: User's, RGB, 7500 and 9300
8	**User Color R**	Adjust the red color's intensity of the screen image
9	**User Color G**	Adjust the green color's intensity of the screen image
10	**User Color B**	Adjust the blue color's intensity of the screen image
11	**OSD H-Pos.**	Adjust the left or right position of the OSD
12	**OSD V-Pos.**	Adjust the up or down position of the OSD
13	**Volume**	Press +, - to adject the volume
14	**Language**	Choose from among ten languages as Simplified Chinese, Traditional Chinese, English, French, German, Spanish, Italian, Russian,Japanese.Portuguese
15	**Power Saving**	Press (+) or (-) to choose on or off
16	**Recall**	Press (+)or (-) recall the default value

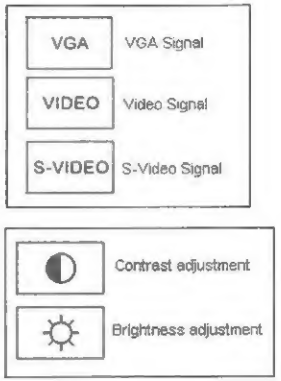
※When supports to Energy-saving standard, OSD menu won't have power saving option.

Composite and S-Video Function Table

REF. #	Menu	Definition
1	**Brightness**	Adjust back ground black level of the screen image
2	**Contrast**	Adjust fore ground white level of the screen image.
3	**Tint(COMPOSITE AND S-VIDEO NTSC Only)**	Adjust of color tint
4	**Color**	Adjust of color density
5	**Color Temp**	Press (+) or (-) to choose three types of color temperature warm , cool , standard
6	**Sharpness**	Adjust the clarity and focus of the screen image
7	**Scan**	Press (+) or (-) to choose two types of over scan or full scan
8	**OSD H-Pos.**	Adjust the left or right position of the OSD
9	**OSD V-Pos.**	Adjust the up or down position of the OSD
10	**Volume**	Press +, - to adject the volume
11	**Language**	Choose from among ten languages as Simplified Chinese, Traditional Chinese, English, French, German, Spanish, Italian, Russian,Japanese.Portuguese
12	**Power Saving:**	Press (+) or (-) to choose on or off

13	**Video NR**	Video Noise Reduction, Press (+) or (-) to choose on or off
14	**Recall**	Press (+)or (-) recall the default value

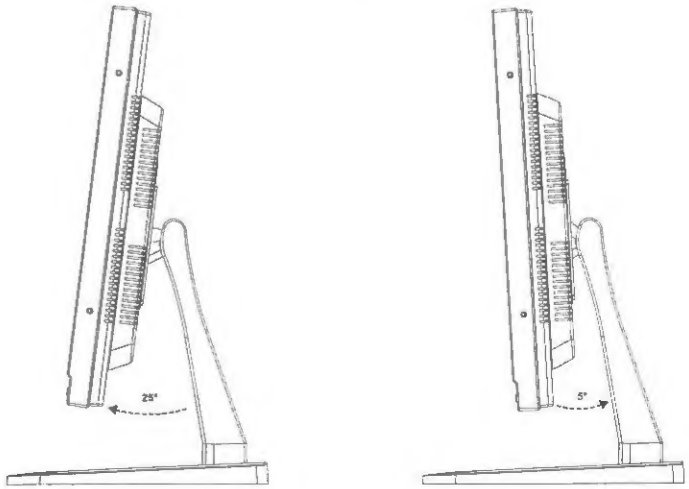
2.4 Input Signal Icon



2.5 Viewing Angle

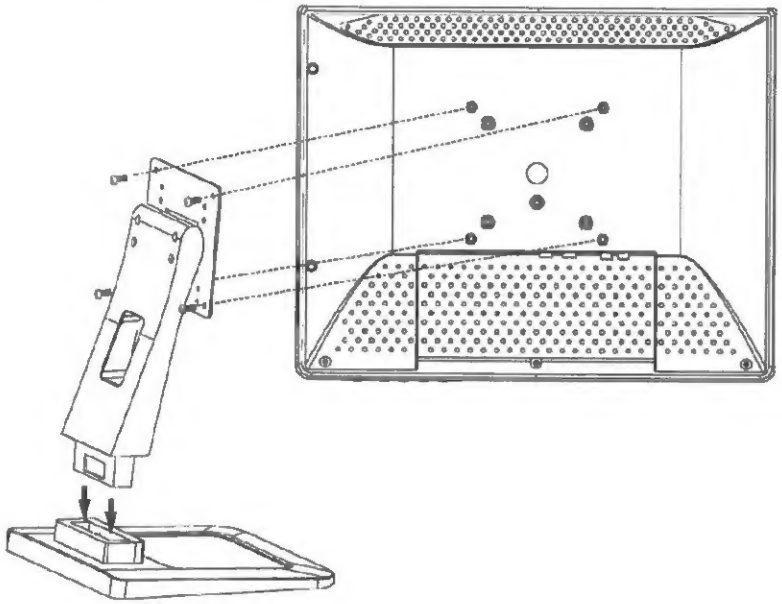
For the user's convenience, the LCD screen may be tilted according to viewing requirements. The monitor can be tilted forward up to 25 degrees or backward up to 5 degrees.

For 17"



2.6 Installation

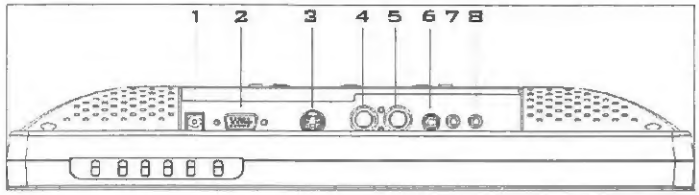
Insert crutch into the slot of base, then screw on the VESA mount onto rear cover.



Chapter 3

Signal Connector

3.1 Signal Connector



1. DC connector: plug head of power cord into a wall socket.
2. VGA: connect analogue R.G.B output terminal, such as the display card output VGA terminal of the personal computer.
3. S-Video In: S-Video input terminal.
4. BNC In: BNC input terminal.
5. BNC Out: BNC output terminal.
6. RCA In: RCA input terminal.
7. Audio In: connect to the input terminal of other audio equipment.
8. Audio Out: connect to the output terminal of audio equipment.

Note:
※ When you choose a Video signal screen without connecting any video signal, "No Signal" will be showed on the screen. During the time playing the video, and remove the video signal, "Video Loss" will be showed on the screen. It's same of other Mode.
※ It takes about 2~3 seconds to change Mode.

Caution:
AVOID directly pulling any cables when disconnecting devices from the monitor.
Always disconnect devices carefully by firmly gripping the metal or plastic connector body and gently easing the connector from its socket.

Chapter 4

Detail Specification & Warranty

4.1 Details Specification

Model		17"
LCD Display		17" Active Matrix TFT LCD
Viewable Size		337.92mm (H) x 270.34mm (V) (5:4)
Pixel Pitch		0.264 (H) x 0.264 (V)) mm
Resolution		1280 x 1024 (XGA)
Contrast Ratio		1000:1
Brightness		300 cd/m^2 (TYP.)
Response Time Tr/Tf		5ms
Display color		16.2M
Viewing Angle L/R		L:85° , R:85° (TYP.)
Viewing Angle U/D		U:85° , D:85° (TYP.)
Lamp Life Time		50,000 hrs
Scan Frequency	Horizontal	31.469KHz ~ 60.237KHz
	Vertical	56.25Hz ~ 75.029Hz
Video Resolution		500TVL
OSD Language		*10 (including English, Traditional Chinese, Simplified Chinese, French, German, Spanish, Italian , Japanese, Russian, Portuguese)
Display Mode		Composite 1, S-video, VGA
Signal Connector	Input	BNC x 1, S-Video x 1, VGA (15 Pin D-Sub) x 1
	Output	BNC x 1
Audio Connector	Input	PC Audio x 1, RCA Audio x 1
	Output	PC Audio x 1
Audio Speaker		1W
Cabinet Material / Color		Black / Plastic
Power Inpout		AC100V ~ 240V 50/60Hz
Power Output		N/A
Power Supply		DC 12V/3.5A
Power Consumption		40W (Max.)
Power Management		VESA DPMS Standard
Operating Condition		Temperature: 0℃ ~ 40℃ Humidity.:20% ~ 80%
Storage Condition		Temperature: -20℃ ~ 60℃ Humidity.:15% ~ 85%
Net Weight (KG)		4.64
Gross Weight (KG)		6.64
Pakcing Dimension (WxHxD) (mm)	Inner Box	495 x 167 x 463mm
	Carton (2 in 1)	512 x 358 x 491mm

※The above spec. is subject to change without notice.

4.2 After Service

After this product is unpacked, keep the carton and packing materials to ensure safe transportation in case of any after sales service.
The warranty is covered by a 12-month limited warranty, subject to normal conditions of use. If you experience any problems with this product please contact your local dealer or supplier for repair and maintenance instructions.

Warranty Do NOT Include:

※Any damage resulting from incorrect use or careless operation or handling of the equipment.

※ Any damage caused by not operating the equipment in accordance with the manufacturer's instructions detailed in the "User Manual " .

※ Any tampering or removal of the Monitor housing will invalidate the warranty.

※Damages resulting from natural disasters e.g. flood, fire and earthquake.

※ Any damages caused by inappropriate transportation or storage of the Equipment.